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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/784,255	02/14/2001	Stephen H. Gunther	42390P4728X	6135
8791	7590 05/06/2002			
BLAKELY SOKOLOFF TAYLOR & ZAFMAN			EXAMINER	
	SHIRE BOULEVARD, SEVENTH FLOOR ELES, CA 90025		LAU, TUNG S	
			ART UNIT	PAPER NUMBER
			2863	
			DATE MAILED: 05/06/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Vid /			
		Application No.	Applicant(s)			
* Office Action Summary		09/784,255	GUNTHER ET AL.			
		Examiner	Art Unit			
	The MAN INCO DATE And	Tung S Lau	2863			
Period f	The MAILING DATE of this communication app or R ply	pears on the cover sheet with the	correspondence address			
I HE - External control contro	MORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply D period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) dwill apply and will expire SIX (6) MONTHS fro	timely filed ays will be considered timely. In the mailing date of this communication.			
1)⊠	1) Responsive to communication(s) filed on <u>14 February 2001</u> .					
2a)□	This action is FINAL . 2b)⊠ Th	s action is non-final.				
3) [Since this application is in condition for allowa closed in accordance with the practice under ion of Claims	nce except for formal matters, Ex parte Quayle, 1935 C.D. 11,	prosecution as to the merits is 453 O.G. 213.			
4)🖂	Claim(s) 1-48 is/are pending in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	5) Claim(s) is/are allowed.					
6)⊠	6)⊠ Claim(s) <u>1-48</u> is/are rejected.					
7)	7) Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/or	election requirement.				
	on Papers	,				
9) 🗆 🤄	The specification is objected to by the Examiner	•				
10) 🔲 -	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
	If approved, corrected drawings are required in rep					
12) 🔲 -	Γhe oath or declaration is objected to by the Exa	miner.				
Priority u	inder 35 U.S.C. §§ 119 and 120					
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)[☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents	have been received.				
	2. Certified copies of the priority documents have been received in Application No					
	 Copies of the certified copies of the priori application from the International Bure ee the attached detailed Office action for a list of 	eau (PCT Rule 17.2(a)).	_			
14) 🗌 A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e) (to a provisional application).			
a) 15) <u> </u>	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	isional application has been red priority under 35 U.S.C. §§ 120	ceived. D and/or 121.			
Attachment						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u> .	4) Interview Summar 5) Notice of Informal 6) Other:	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
J.S. Patent and Tra PTO-326 (Rev		on Summary	Part of Paper No. 5			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
 - a. Claims 1, 9, 17, 34, 37, 38, 39 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gose et al. (U.S. Patent 5,675,297) in view of Evoy (U.S. Patent 5,713,030).

Gose discloses an apparatus, a thermo management system with power modulation element, control element, visibility element to indicate status of the output (fig. 1), counter timer (fig. 2)

Gose does not disclose the temperature detection element formed on an microprocessor integrated circuit die, Evoy disclose the computer system with temperature detection element formed on an microprocessor integrated circuit die, with plurality of functions with memory (fig. 3), to integrated the function of the microprocessor with temperature control with reference voltage (fig. 3)

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gose to have the temperature detection element formed on an microprocessor integrated circuit die taught by Evoy in order to integrated the function of the microprocessor with temperature control.

b. Claims 2, 6, 7, 8, 10, 14, 15, 16, 18, 22-33, 35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Gose as applied to above claims, and further in view of Pippin (U.S. Patent 5,838,578)

The Gose combination disclose a method including the subject matter discussed above except the use of programmable voltage source and comparator, Pippin disclose such usage (fig. 1), a register to allow software and hardware to enable the thermo management system to reduce and monitor temperature (fig. 1, 7, 8, 11). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gose to have use of programmable voltage source and comparator as taught by Pippin in order to have flexibility on the system.

Is well know to one of ordinary skill in the art at the time the invention was made to lower the supply power and the operating frequency of the clock in order to lower temperature of the IC chip.

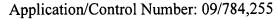
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c. Claims 3, 4, 5, 11, 12, 13, 19, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Gose as applied to above claims, and further in view of Kardash (U.S. Patent 6,137,329) and Bhatnagar (U.S. Patent 6,336,593)

The Gose combination disclose a method including the subject matter discussed above except the pulse dampener to remove electrical noise with analog filter, Kardash disclose the pulse dampener to remove electrical noise with analog filter (col. 3, lines 16-31, fig. 5), Bhatnagar with digital filter (col. 8, lines 44-51). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gose to have the pulse dampener to remove electrical noise as taught by Kardash in order to improve system stability.

d. Claims 41- 43 and 45-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pippin (U.S. Patent 5,838,578) in view Wolrich et al. (U.S. Patent 6,101,516).

Pippin disclose and suggested apparatus for thermo management system with register to enable and disable bit, to disengage a specific portion of the thermo management system, with external event, can override (fig. 7-11), allow external software and hardware to enable the for thermo management system (fig. 11),



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counter to count number of clock with processor and generate interrupt (fig. 9), visibility element to indicate the status of temperature sensor (fig.11).

Pippin does not disclose a use of a sticky bit, Wolrich disclose a use of a sticky bit (col. 4, lines 5-15), to normalize the bit position and speed up calculation (col. 2, lines 29-45).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Pippin to have the use of a sticky bit taught by Wolrich in order to normalize the bit position and speed up calculation.

e. Claims 44 and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Pippin as applied to above claims, and further in view of Gose et al. (U.S. Patent 5,675,297)

The Pippin combination disclose a method including the subject matter discussed above except the power modulation to reduce power consumption, Gose disclose such application (fig.1-4), with reduce die size and conditional thermo shutdown (col. 2, lines 33-36).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Pippin to have the power modulation to reduce power consumption taught by Gose in order to reduce die size and conditional thermo shutdown.

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2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 703-305-3309. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John S Hilten can be reached on 703-308-0719. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5841 for regular communications and 703-308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

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May 1, 2002

JOHN S. HILTEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800